ζ

DONTSOV, G., arkhitektor; VORONKOV, I., arkhitektor

State farm villages of the near future. Zhil. stroi. no.8:27-29
(MIRA 15:9)
(Virgin Territory-Rural planning)

SOURCE CODE: UR/0399/66/000/009/0107/0111 (N) ACC NRi AP6031288 AUTHOR: Konstantinov, V. P.; Dontsov, G. I. ORG: Department of Infectious Diseases/Director-docent V. P. Konstantinov/, Omsk Medical Institute im. M. I. Kalinin (Kafedra infektsionnykh bolezney Omskogo meditsinskogo instituta) TITLE: Clinical picture and treatment of tetanus SOURCE: Sovetskaya meditsina, no. 9, 1966, 107-111 TOPIC TAGS: human ailment, tetanus, tetanus therapy, disease therapeutics, apidemid ogy, injutire Disease ABSTRACT: Clinical-epidemiological studies of tetanus in Omsk revealed that symptoms were fairly similar in all patients; the incubation period ranged from 3-30 days with an average between 5-11 days. Eight deaths were caused by asphyxia or cardiac paralysis. Complex therapy was effective for all survivors and revaccination was recommended. [WA-50; CBE No. 12] SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 030/ UDC: 616.981.551.313.13(571.13) 1/1

DONTSOV, I.I.

USTINOV, V. G., DONTSOV. I. I.

Swine.

Progressive practice in raising pigs. Sov.zoo tekh. 7, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953/2 Unclassified.

LENTSON I.T.

USTINOV, V.G., <u>PONTSOV</u>, I.I.

Swine - Feeding and Feeding Stuffs

Accelerating the growth of hogs on collective f arms of the Kurgan district. Sots. zhiv. 14 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952, UNCLASSIFIED.

ZINGARENKO, I.M., DONESOV, I.M.

Automatic regulator of the level of tomato concentrate in evaporators. Kons. i ov. prom. 13 no.9:18-19 8 58.

(MIRA 11:10)

1. Tiraspol'skiy konservnyy zavod imeni 1 Maya.
(Automatic control) (Canning industry--Equipment and supplies)

DONTSOV, K. (g. Rommy, Sumskoy oblasti).

Simple winding apparatus. Radio no.11:62 N '53.

(HIRA 6:11)

(Electric coils)

DONTSOV, K

Subject : USSR/Aeronautics

ADD P - 3119

Card 1/1 Pub. 58 - 5/24

Author : Bogachenko, V., Dontsov, K.

Title : Soaring flights should be organized. (Letter to the editor)

Periodical : Kryl. rod., 10, 7, 0 1955

Abstract: This is a complaint about the inactivity of the management of the Aviation-Technical Club of L'vov, in which soaring flights are not organized in spite of the technical possibilities.

Institution : Aviation-Technical Club, L'vov

Submitted : No date

PONTSOV, K.

THOR: DONARDY K (Polters)

AUTHOR: Dontsov, K. (Poltava)

TITLE: How to Convert a KV-M Receiver to Amateur Bands
(Peredelka priyemnika KV-M na lyubitel'skiye diapazony)

PERIODICAL: Radio, 1957, Nr 5, p 42 (USSR)

ABSTRACT: Many radic clubs have KV-M receivers which can hardly be used for amateur purposes because of their "compressed" bands. Use of a few additional capacitors is recommended for spreading the bands of 160, 80, 40, and 20 meters. Connections are indicated.

AVAILABLE: Library of Congress

Card 1/1

DONTSOV, K.M.

Determining pressure in a circle of wells operating under the elastic compression of the layer during central flooding. Izv.vys.ucheb.sav.; neft i gas 1 no.10:55-61 58.

(HIRA 12:4)

1. Groznenskiy neftymnoy institut.
(Oil field flooding)

DONTSOY, K.M.

Determining pressure in an unevenly permeable layer operating under elastic compression in central oil-well flooding. Izv. vys. ucheb. zav.; neft! 1 gaz 2 no.4:57-62 159. (MIRA 12:10)

1.Grosnenskiy neftyanoy institut.
(Oil field flooding)

DONTSOV, K.M.; ORKIN, K.G.

Selecting an artificial method for developing the second No.16 block of the fault sole in the Starogroznyy field. Izv. vys. uoheb. zav.; neft' i gaz 3 no.10:41-48 '60. (MIRA 14:4)

1. Grosenskiy neftyanoy institut.
(Groznyy region-Oil fields-Production methods)

DONTSOV, K.M.; POLYAKOV, G.G.; AYRAPETYAN, S.M.

Method for estimating fluid overflow when the well column is not airtight. Izv.vys.ucheb.zav.; neft' i gaz 6 no.ll:51-56 '63.

(MIRA 17:9)

1. Groznenskiy neftyanoy institut.

DONTSOV, K.M.

Processing the indicator lines of fractured reservoir rocks. Izv. vys. ucheb. zav.; neft' i gaz 8 no.1:35-39 '65.

1. Groznenskiy neftyanoy institut.

(MIRA 18:2)

DONTSOV, K.M.

Distortion of indicator lines taken in the deep wells of a fractured reservoir rock. Iav. vys. ucheb. zav.; neft' i gaz 8 no.4:41-44 '65.

(MIRA 18:5)

1. Groznenskiy neftyanoy institut.

MUNTSOV, K.M.: ISTORIN, A.Z.

DONT BOV, K.R.

Experience in burning pulverized anthracite culms. Sakh.prom. 37 no.6:39-42 Je '63. (MIRA 16:5)

1. Malo-Viskovskiy sakharnyy savod.
(Boilers--Firing) (Sugar industry---Equipment and supplies)

DONTSOY, N. V.

Signal device for automatic determination of temperature in the canul of a dryer. Rats. i isobr.predl. v stroi. no.118:15-17 *55. (Drjing apparatus) (Thermometry) (MIRA 9:7)

Dintsov, n.v.; Yevteyev, v.A.; Natanzon, S.N.

Constan; temperature control of clay bricks aided by remotecontrolled electric thermometers. Rats. i isobr. predl. v stroi. no.3:62-64 157. (MIRA 11:1)

DONTSOUNU.

US3R Chemical Technology. Chemical Products and Their Application

H-3

Control and Heasuring Devices. Automatic Regulation.

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1579

Author : Natanzon S.N., Dontsov N.V.

Title Automation of the Regulation and Control of

Thermal Processes in the Technology of Building

Ceramics.

Orig Pub: Gor. kh-vo Moskvy, 1957, No 8, 25-31

Abstract: Description of the devices for automatic control

and regulation of thermal processes, which were made and put in operation at the Cheremushkinskiy brick factory. In order to check the temperature of the block of clay, after it has been moistened by steam treatment, a semiconductor resistance

Card 1/2

USSR /Chemical Technology. Chemical Products and Their Application Control and Messuring Devices. Automatic Regulation.

H-3

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1579

thermometer has been designed. Systems have been evolved for automatic regulation of steam pressure in the boilers and of the temperature of the heat-transfer agent in the central duct of the heated drier.

Card 2/2

DON'TSOV, N.V.; YEVTHYEV. V.A., mekhanik; NATAHZOH, S.N.

Automatic regulation of steam pressure in low-pressure boilers at brickmaling plants. Rats. 1 izobr. predl. v stroi. no.5:55-56 [MIRA 11:6]

1. Nachalinik otdela organizatsii truda Cheremushkinskogo kirpichnogo savoda, Hoskva 17 (for Natanson). 2. Naster elektrotsekha Cheremushkinskogo kirpichnogo savoda, Moskva 17 (for Dontsov).

(Boilers) (Pressure regulators)

OGURTSOV, A.N., insh.; DONTSOV, N.V., master; BAYMAL, K.P., master

Photoelectric control of coal feeding. Stroi.mat. 6 no.4:25-26 Ap '60. (MIRA 13:6)

1. Cheremushkinskiy keramicheskiy zavod. (Photoelectric cells) (Automatic control) (Ceremics)

BAYDAL, K.P.; DONTSOY, N. V.; OGURTSOY, A.W.

Automatic unit for signaling the presence of metal in the molding batch. Stroi. mat. 6 no.10:28 0 160. (MIRA 13:10) (Electronic instruments)

DONTSOV, N.V.; CGURTSOV, A. M.; insh.; BAYDAL, K. P., master otzhoga

Automatic control of lighting systems. Gor. khoz. Mosk. 34 no.11:30-31 m '60. (MIRA 13:11)

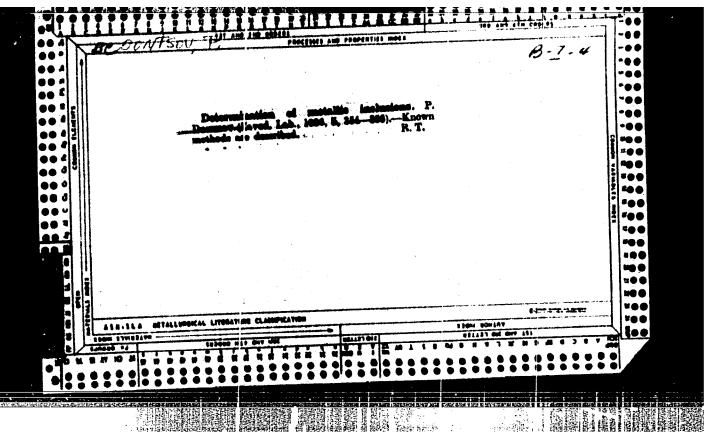
1. Cheremushkinskiy keramicheskiy savod. 2. Kaster elektrotsekha Cheremushkinskogo keramicheskogo zavoda (for Dontsov). 3. Byuro sodeystviya ratgionalizatsii i izobretatel*stvu (for Ogurtsov). (Moscow-Factories-Lighting) (Automatic control)

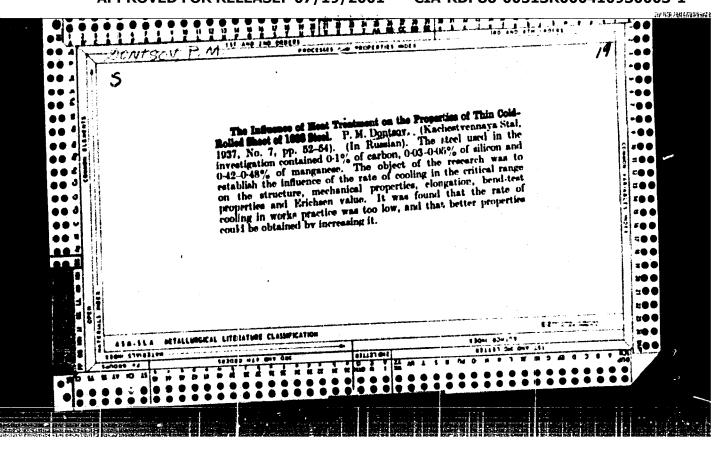
DOMESOV, P. F.: OL'KHOVSKIY, H. V.

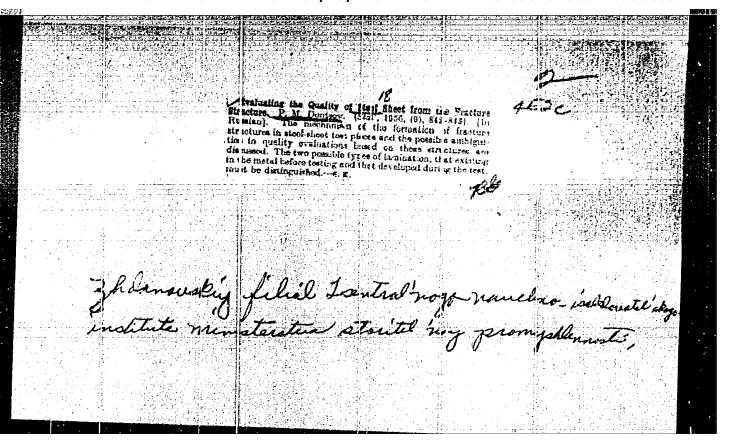
Mbr., Gor'kiy Milling Machine Plant (-1945-)

"High-Speed Milling," Stanki I Instrument, 16, Nos. 7-8, 1945

BR-52059019







14(9,10)

SOV/95-59-4-3/12

AUTHORS:

Krasil'shchikov, Z.H., Shmidt, N.V., Dontsov, P.M., Candidates of Technical Sciences, Shvach, Ye.N., Pavlenko, N.T.,

Nechepurenko, S.Ye., Engineers. (Zhdanov)

TITLE:

Experimental Industrial Lot of Pipes Made From Thermically Hardened Carbon Steel ♥ (Opytnaya promyshlennaya partiya trub iz termicheski uprochnennoy uglerodistoy stali)

PERIODICAL:

Stroitel'stvo truboprovodov, 1959, Nr 4, pp 8-11, (USSR)

ABSTRACT:

Welded pipes from thermically hardened carbon steel St.3 (sp) were manufactured in accordance with "Temporary technical conditions" approved by the Claveaz USSR. The work has been carried out by a branch of TsMII GKS in cooperatwith the welding laboratory of VEIIST in the Zhdanovskiy zavod imeni Il'icha (Zhdanov Plant imeni Il'ich). Steel sheets 6,300 x 1,750 x 8 mm were rolled from slabs on mill Trio-Lauta at a starting temperature of 1,250°C and a final temperature of 900-1,000°C. The chemical composition is shown in Table Er 1. During the hurdening process the sheets in packages of 6-10 sheets were placed in an oven having a temperature of up to 1,000°C and were heated to a

Card 3,4

(1) \$3-**5**9-4-5, 12

Experimental Industrial Lot of Pipes Made From Thermically or receive Carbon Steel

temperature of 950 1 1000; each sheet who the employ in water during 1 minute in a vertical position. The tempering process consisted in the heating of each sheet separately to a temperature of 540 ± 10°C during 20 minutes and subsequent cooling by air. In all tested sheets temporary tensile strength was 50-60 kg/mm2; yield point was 35 kg/mm2 and relative elongation (over 15%; efter ertificial aging, toughness at a temperature of -20°C exceeded 3 m kg/om2; bending angle was 1800. Ratio of the yield point to temporary tensile strength was less than 0.8. After thermal treatment the sheets were subjected to cold dressing in a 7-roller mill during 5-7 minutes and bent to shape in a 4-roller mill, the bending process lasting from 3-5 minutes for each sheet. Automatic welding was done with clastrode Fods SvlOGS under flux OSTs-45 with a current of 36-44 v and 750-850 a. After welding the pipes were subjected to cold rolling during 3-5 minutes. Ends of ripes were calibrated and chartered. In this condition reception tests were made on 2 pipes of the same smelt, to determine mechanical properties of the welded joint and of the fused on metal;

Card ? 😿

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500, 95-59-4-3, 12

Experimental Industrial Let of Pipes H. Je Pron Thermically Mardened Carbon Steel

results of tests are shown in Table Br 3. Values of toughness under lynamic touts are shown in Table 4. At room temperature the toughness is 6.5-14.0 m kg/cm2. The lower the temperature the lever the toughness and the greater the amount of crystalline portions; at -4600 for instance the fracture is almost entirely crystalline and the toughness is 4.0-7.0 m kg/cm2. The fused on metal differs from basic metal by a lower toughness under all tage oratures. A comparative Graph Kr 1 shows the difference. strength between basic metal, fused on metal and metal in intermediate nones. Chemical composition of fused on metal is shown in Table Nr 5. At first it appeared as though welded, thermically hardened carbon steel pipes should work out slf-htly more expensive than pipes from low-alloy steel of MK grape. Successive improvements of thermal treatment will, however, lower the cost of production of the pipes from St. 3(sp) steel, which will work out cheaper in the end than the pipes from

Card 3/4

Experimental Industrial Lot of Pipes Made From Thermically Mardened Carbon

low-allo, MK grade steel. The industrial trial lot of 42 tons of welded thermically hardened carbon steel pipes proved their fitness for high pressure gas and oil ripeline work.

Those are 5 table, 1 graph and 2 microphotos

Cari 4/4

.18(3)

507/170-59-5-5/18

AUTHOR:

Dontsov, F.M.

TITLE:

On Crystalline Fracture as a Criterion of Steel Brittleness (O kristallicheskom izlome kak kriterii khrupkosti stali)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 5, pp 28-35 (USSR)

ABSTRACT:

There is a wide-spread concept, advocated in particular by V.A. Delle / Ref 4/, S.I. Sakhin / Ref 5/ and others, that the crystalline structure of steel fractures always indicates its brittle state. However, there are experimental data pointing out that this is not necessarily the case. The author describes these data, analyzes them and criticizes the above mentioned concept. He shows that steel may possess considerable toughness in spite of having crystalline structure of fracture. For an explanation of this phenomenon the author adopts the theoretical scheme of A.F. Ioffe and statements of N.N. Davidenkov on the brittle strength and resistance of metals to brittle and viscous tearing off. In addition to these, he makes use of the "load-sagging" diagram obtained during the statical testing of notched specimens for bending and a theoretical analysis of this diagram

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SOV/170-59-5-5/18

On Crystalline Fracture as a Criterion of Steel Brittleness

performed by I.L. Shimelevich Ref 12 . To check the theoretical notions the author carried out statical tests on a 12-ton tensile testing machine of the TsNIITMASh design and impact tests on a pile-driver with a power of 30 kg m. The results of the tests are compiled in Table 3. The author discusses the results and draws conclusions as to the cases in which metal displaying crystalline fracture may have considerable toughness and when crystalline fracture is an indication of the brittle state or of a state immediately praceding it. The temperature of testing has a considerable effect on the kind of behavior of steel.

There are 3 graphs, 3 tables and 15 references, 11 of which are Soviet, 3 German and 1 English.

Card 2/2

DONTSOY, P.M., kand.tekhn.nauk (g.Zhdanov); SHVACH, Ye.G., inzh. (g.Zhdanov)

A study of methods which provide increased strength and toughness of pipes. Stroi. trubogrev. 7 no.10:10-13 0 162. (MIRA 15:11)

(Pipe, Steel)

DONTSOV, P.M.; SHVACH, Ye.N.

Efficient methods of hardening low-alloy and low-carbon steel. Stal' 22 no.2:165-167 F '62. (MIRA 15:2) (Steel alloys—Hardening)

SHMIDT, N.V.; DONTSOV, P.M.; KRASIL'NIKOV, Z.N.; SHVACH, Ye.N.; OVSL'ANNIKOV, I.I.

Heat treated carbon steel for shipbuilding. Sudostroenie 28 no.9:44-48 S '62. (MIRA 15:10) (Plates, Iron and steel—Testing) (Shipbuilding)

ACCESSION NR: AR4041537

S/0137/64/000/004/D016/D016

SOURCE: Ref. zh. Metallurgiya, Abs. 4D92

AUTHOR: Dontsov, P. M.; Kuz'min, V. I.

.TITLE: Riveting of austenitic steels during beding and straightening

CITED SOURCE: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, vy*p. 11, 1963,

123-126

TOPIC TAGS: austenitic steel, bending, straightening, riveting

TRANSLATION: During manufacture of high-quality profiles from austenitic steel with high content of Mn (up to 17%) the necessary level of mechanical properties is ensured when hot rolling is finished at a temperature ≤ 850°. This is connected with the special physical properties of the steel, due to which recrystallization in the process of hot plastic flow is sharply braked at a definite temperature and strength of the steel increased due to work hardening. Rolling of steel at a

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ACCESSION NR: AR4041537

higher temperature inevitably is accompanied by lowering to greater or lesser degree the strength of the steel (σ_s usually decreases by 2-8 kg/mm²), per and articles become off-grade. The investigated metal by standard sizes of profiles was divided into 2 groups: group I — equal side angle irons 25 x 25 x 3, 25 x 25 x 4, 30 x 30 x 4, 40 x 40 x 5 millimeters; group II — equal side angle irons 60 x 60 x 8, 65 x 65 x 8, 90 x 90 x 8, 75 x 75 x 6 millimeters. Strips rejected for insufficient magnitude σ_s were subjected in cold state to additional bending and straightening; here the roller-type straightening machines are aligned such that the arrow of sag and the wave of the strip were the maximum possible for a machine of the given design. As an example there are given conditions of bending and straightening of one of the experimental profiles on a 9-roller machine with the step of the rollers 600 millimeters. The investigation gave the possibility / to offer a simple method of improvement of mechanical properties of high-quality rolling from austenitic steels.

SUB CODE: MM

ENCL: 00

Card 2/2

DONTSOV, P.M.; DONTSOVA, A.Ya.

Characteristics of the volume state of iron-carbon alloy phases. Izv. vys. ucheb. zav.; chern. met. 6 no.5:168-174 *63.

(MIRA 16:7)

(Iron alloys—Metallography) (Phase rule and equilibrium)

ACCESSION NR: AP4014252

5/0133/64/000/002/0149/0152

AUTHORS: Dontsov, P. M. (Candidate of technical sciences); Papush, A. G. (Candidate of technical sciences); Aristov, V. S. (Candidate of technical sciences); Malakhovskiy, L. G. (Engineer); Shcherbak, M. A. (Engineer); Dontsova, A. Ya. (Engineer); Gorbachev, A. F. (Engineer)

TITLE: Production of plated formed iron by electric-arc fusing and rolling SOURCE: Stal', no. 2, 1964, 149-152

TOPIC TAGS: plated iron, stepl, electric arc fusing, profile iron, SWIKh18N9T electrode, MS 1 steel, ADS 1000 2 welder, AN 26 flux, stainless steel, SVIKH18N9T solder, rolling mill, 620 rolling mill, 450 rolling mill, 1400 rolling mill

ABSTRACT: The authors describe a new technique for plating formed iron of different shapes. Several layers of stainless steel were fused ontouthe samples by the automatic multi-electrode welding method. The chemical composition of the metal plate proved satisfactory (Cr > 16%, Ni > 8%) when the MS-1 steel and 3-mm SVIKh18N9T electrodes with AN-26 flux were used. The automatic welding assembly ADS-1000-2 was designed to produce simultaneous operation with three electrodes.

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ACCESSION NR: AP4014252

Samples were rolled in mills 620, 450, and 400. Tests showed a strong union of plate with the base metals. In structure, the first layer of the fused-on metal proved to be martensitic and the following layers austenitic. It was determined that the optimal thickness of the metal plate was 1-2 mm. The samples withstood tests for intergranular corrosion even when the angle of bending was 180 degrees. Orig. art. has: 2 tables, 4 figures, and 4 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: OOL .

OTHER: 000

Card 2/2

DONTSOV, P.M., kand.tekhn.nauk; PAPUSH, A.G., kand.tekhn.nauk; ARISTOV, V.S.; kand.tekhn.nauk; MALAKHOVSKIY, L.G., inzh.; SHCHERBAK, M.A., inzh.; DONTSOVA, A.Ya., inzh.; GORBACHEV, A.F., inzh.

Manufacture of clad rolled shapes by the method of electric arc hard facing with subsequent rolling of the blank. Stal' 24 nc.2: 149-152 F '64. (MIRA 17:9)

SOV/136-58-11-13/21

AUTHORS:

Dontsov. S.N. Berman, S.I.

TITLE:

Strength Characteristics of Titaniam Alley with 5% Aluminium Under Hot Pressing Conditions (Procumentnyye

kharakteristiki splava titana o 5% olyuminiya v

uslovivakh obrabotki davleniyem v goryachem sostoyanii)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 11: pp 71-77 (USSR)

ABSTRACT:

A binary alloy of titanium with 5% aluminium has found application in Soviet industry and the work described has been parried out with the object of determining the mechanical properties and degree of permissible deformation at high temperatures and rates of deformation including the true yield-point strength, the rate coefficients and the mean specific pressures produced during rolling in smooth rolls at high temperatures and various degrees of deformation.

90 x 220 x 330 mm forgings containing 0.11% Fe, 0.07% Si, 0.03% C, 0.02% 02, 0.04% N and 0.015% H, were cut into 14 x 14 x 330 mm blanks from which Suitable

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SOV/136-58-11-13/21

Strength Characteristics of Titanium Alloy with 5% Aluminium Under Hot Pressing Conditions

> test pieces were made. The speeds of deformation used corresponded to those of Soviet rolling practice. A series of resistance strain gauges were used (fig.1) for following the tensile test, the specimen being contained in a furnace. Maxima of relative-deformation in tension and compression and of toughness and minima were found (fig.2) at 1000-1150 and 900-950°C respectively. True yield-point strengths were determined at 800-1150°C and deformation rates of 0.33, 280, 560, 740 and 1120% per second from tensile test results, the relations obtained (fig.4) confirming that the degree of deformation must be taken into account when studying the effect of deformation rate on the true yield-point strength at such temperatures. The rate coefficients were taken as the ratio of the yield-point strength at the higher rates to that at 0.33% per second for the given temperature and degree of deformation (values tabulated on p 75). A two-high laboratory rolling mill with strain gauges was used to find the total force between metal and rolls, from

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507/136-58-11-13/21

Strength Characteristics of Titanium Alloy with 5% Aluminium Under Hot Pressing Conditions

which the mean specific pressures for various temperatures (700-1100°C) and degrees of deformation per pass were calculated (fig.5). These experimental specific-pressure values obtained were compared with those calculated by A.I. Tselikov's equations (ref.12) from the true yield-points strength allowing for the rate and degree of deformation: the latter differed by 10-15% from the experimental. Tselikov's equation was also used to construct graphs of the coefficient of friction in rolling the alloy at various degrees of deformation (15-50%) as functions of the

Card 3/4

507/136-58-11-13/21

Strength Characteristics of Titanium Alloy with 5% Aluminium Under Hot Pressing Conditions

temperature (fig.6): the values of the coefficient varied from 0.085 to 0.36. There are 6 figures, 1 table and 12 references of which 7 are Soviet and 5 English.

ASSOCIATION: Mintsvetmetzoloto

Card 4/4

DONTSOV, S. N.: Master Tech Sci (diss) -- "A study of the plastic and strength properties of alloys based on titanium at various temperatures and rates of deformation, and the establishment of certain parameters for their pressure treatment". Moscow, 1959. 13 pp (Min Higher Educ USSF, Krasnoyarsk Inst of Nonferrous Metals im M. I. Kalinin), 150 copies (KL, No 17, 1959, 108)

DONTSOV, S.N.; EERMAN, S.I.

Characteristics of strength and plasticity in titanium-aluminum-vanadium alloys under the effect of hot working. Izv. vys. ucheb. zav.; tsvet. met. 2 no.3:108-117' '59. (MIRA 12:9)

l. Moskovskiy institut tsvetnykh metallov i zolota, Kafedra obrabotki metallov davleniyem.

(Titanium-aluminum-vanadium alloys) (Deformations (Mechanics))

18.1285 18.8200

31741 5/136/61/000/012/005/006 E193/E383

AUTHORS:

Dontsov, S.N., Yermanok, M.Z., Candidates of Technical Sciences and Chizhov, I.N., Engineer

TITLE:

Strength characteristics of titanium alloys and their application in calculating stresses during plasticworking operations

PERIODICAL: Tsvetnyye metally, no. 12, 1961, 74 - 76

TEXT: Lack of experimental data on the resistance of Ti alloys to deformation at various temperatures and deformation rates causes difficulties in designing equipment for plasticworking of these materials and in establishing optimum working schedules. Hence the present investigation, which is concerned with the properties of pure Ti (BT| (VT1)) and Ti alloys (BT6 (VT6), BT 5 (VT5) and OT4). In Fig. 1, the hot tensile strength ($\sigma_{\rm R}^{\prime}$, kg/mm²) of these materials is plotted against temperature (°C). It will be seen that at 1 050 - 1 150 °C, i.e. in the hot-working temperature range, σ_B of all four materials is very much the same. These values, however, cannot Card 1/54

Strength characteristics of

31741 S/136/61/000/012/005/006 E193/E383

be used as the basis for calculating stresses during hotworking operations because they represent strength of undeformed material, whereas the strength of an alloy near the exit end of the deformation region depends on the deformation (rolling) rate. The effect of strain rate on of the alloys studied is illustrated in Fig. 2, where of of the alloy VT5 is plotted against test temperature (°C), curves 1-4 relating, respectively, to strain rates of 0.33, 280, 740 and 1 120 %/sec; (similar results were obtained for the alloy VT6). The data presented

against test temperature (°C), curves 1-4 relating, respectively to strain rates of 0.33, 280, 740 and 1 120 %/sec: (similar results were obtained for the alloy VT6). The data presented in Fig. 2 are reproduced in a different manner in Fig. 3, where the so-called strengthming coefficient (c) is plotted against the strain rate (N, %/sec) at temperatures indicated by each curve. If it is assumed that the average resistance of a metal to deformation during rolling. Specific and arithmetical mean

of its tensile strength near the entry and exit ends of the deformation region, it can be calculated from the formula:

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Strength characteristics of

$$^{S}_{A,CP} = \frac{1 + c}{2} \cdot \sigma_{5}^{CTaT}$$
 (2)

where is the tensile strength determined by the

static test at a given temperature and c is the strengthening coefficient corresponding to a given rolling temperature and speed. If, as has been postulated by Perlin, is a geometrical means of near the exit and entry ends of the deformation region, Eq. (2) becomes:

$$^{S}A.cp = ^{\circ}E_{CTAT} \cdot \sqrt{c}$$
 (3).

The magnitude of c is independent of the rate of deformation in cold-rolling and the average resistance to deformation in this case is simply Card 3/54

Strength characteristics of

s/135/61/000/012/005/006

the arithmetical mean of UTS of the alloy before and after rolling. A more accurate value of Space in cold-rolling

is given by the formula proposed by M.Z. Yermanok in Ref. 5 (IVUZ, Tsvetnaya metallurgiya, 1959, no. 6):

(5) Hall + FKOH

where ⁶НаЧ bkok alloy before and after rolling, and denote, respectively, the UTS of the

FKOH denoting the cross-sectional area of the stock at the entry and exit ends of the deformation region.

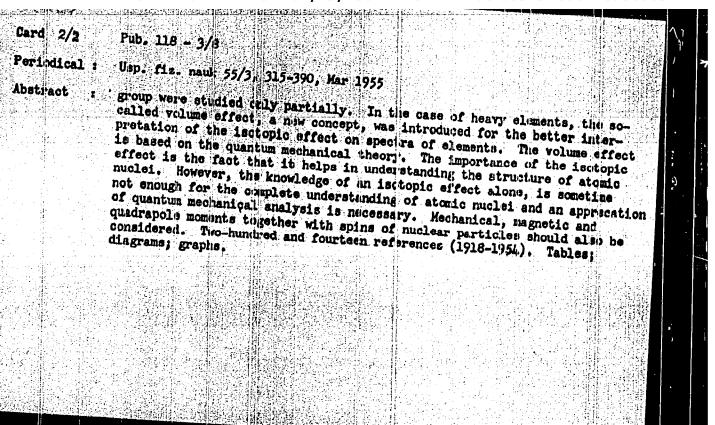
Card 4/84

ACC NR: AT7004170

an increase of tantalum content from 0.24% to 19.8% in forged specimens resulted in an increase in tensile strength from 607 to 764 Mn/m^2 and elongation from 18 to 25%. It was also found that the tensile and yield strengths of hot-forged specimens were considerably higher than those of specimens annealed at 1250C for 2 hr. This indicates that there was not sufficient time for recrystallization during forging at 800-1200C. Corrosion tests of niobium, tantalum and niobium-tantalum alloys were carried out in various solutions of sulfuric, hydrochloric and nitric acids. It was found that the corrosion rate of the alloys decreases with increased tantalum content. For instance, the corrosion rate of an alloy containing 5% tantalum in a 40% solution of sulfuric acid was 0.09 g/m2·hr, while that of an alloy containing 30% tantalum was 0.01 g/m2.hr. Alloys containing not less than 5% tantalum were found to be completely corrosion-resistant in a 20% solution of hydrochloric acid. This high corrosion-resistance of niobium-mantalum alloys is due to the presence of a protective film of mixed tanualum and niobium oxides, such as Ta205 and Nb205. Orig. art. has: 7 figures and 1 table.

SUB CODE: 1120/SUBM DATE: 27Sep66/ ORIG REF: 006/ OTH REF: 003/ ATD PRESS: 5115

P.	ONESOVI
USER/ Nuclear	physics - Isotopia effect
Dard 1/2	Pub. 118 - 3/8
Authors :	Striganov, A. P., apri Dontsov, V. A.
Title 1	Isotopia effect on Void espectra
Peridical :	Usp. fis. nauk 55/3; 315-390, Mar 1955
Abstiract i	The isotopic effect on the atomic spectra (optical) is discussed. The discussion is conducted separately for the light, medium and heavy elements. The isotopic effect was studied completely for 33 out of 57 stable elements, with the number of isotopes larger than 2, and 4 out of 17 radioactive elements. Seven elements of the first group and thirteen elements of the second group were not studied at all. Seventeen elements of the first
Institution	
Submitted	



DOFTBOY, V.L. THE PERSON NAMED IN COLUMN

Teaching of physics in rural schools. Fis.v shkole 14 no.1:34-37 Ja-F (MLBA 7:1)

1. 15-ya shkola Plastunovskogo rayona Irasnodarskogo kraya. (lhysics--Study and teaching)

DONTSOY, V.L.

Teaching physics in rural schools with emphasis on polytechnical education. Fis.v shkole 17 no.2:69-72 Mr-Ap 157. (MIRA 10:3)

1. 15-ya Staro-Korsunskaya srednyaya shkola, Krasnodarakiy kray. (Physics--Study and teaching)

DONTSOV, V.L.

Electric equipment of the physical laboratory in a school not provided with electric current. Fiz. v shkole 22 no.2178-E0 Nr-Ap '62. (MIRA 15:11)

1. 15-ya sradnyaya Ekola, st.Staro-Korsunskaya Krasnodarskogo kraya. (Physical laboratories--Equipment and supplies)

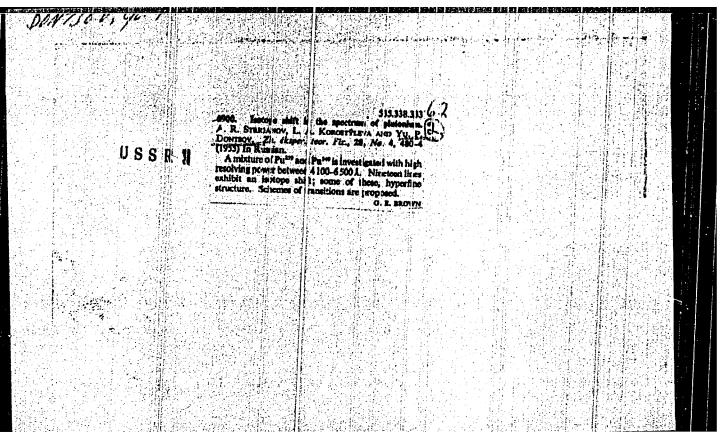
An innovator at the Krivetskiy rafting grounds. Mast. less 2 no.7:12-14
J1 158. (MIRA 11:9)

(Lumber -- Transportation)

STRIGAROW, A.M.; KOROSTYLEVA, L.A.; DOMTSOW, Yu.P.

Isotope shift in plutonium spectra. Isv. AN SSSR. Ser. 19 no.1:
(Spectrum analysis) (Spectrometer)

(MIRA 8:9)



DONTSOV, Ye.P.

Three-phase, single pass automatic submerged are welding.

Proisv. opyt v obl. svar. no.1:49-56 166.

(Electric welding)

DONTSOV, To.P. SHEVELEY, A.S.

Automatic submerged are built-up wolding of 52x150mm. orifices in damper plates. Proisv. opyt v obl. svar. no.1:77-78 56.

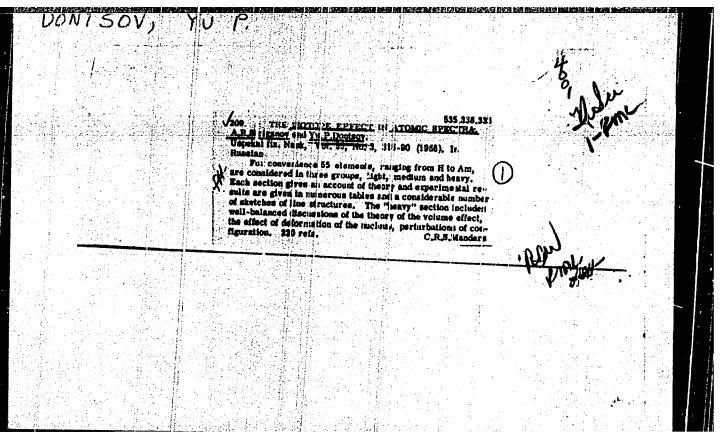
(MEMA 9:10)

(Machinery--Welding) (Electric welding)

PIVOVAROVA, Z.K., inzh.; DONTSOV, Ye.P., inzh.; ROSTENKO, V.R., inzh.; KOTOV, B.I., inzh.

Mechanization of the production of water glass for electrodes. Svar. product. no.5:34 My 164. (MIRA 18:11)

1. Taganrogskiy zavod "Krasnyy kotel shchik".



DONTSON, YU. P.

USSR / Physical Chemistry - Aton.

B-3

Abs Jour

: Referat Zhur - Khirdya, No 6, 25 Barch 1957, 18119

Luthor

: Dontsov, Yu.P.

Title

: Isotopical Displacement in the Spectrum of Dysprosium

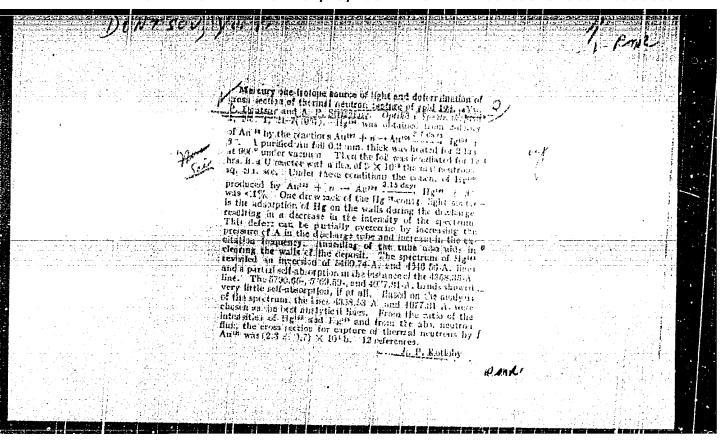
Orig Pub

: Optika i spektroskoniya, 1956, 1, No 5, 612-616

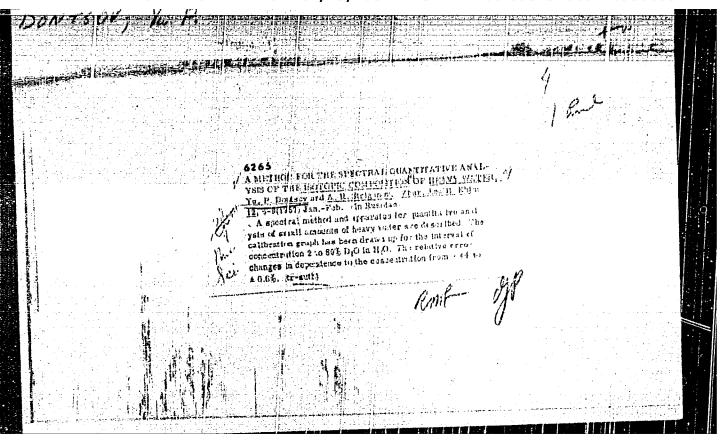
..bstr-ct

Isotopical displacement in the spectrum of Dy was investigated in the region 3900-6850 h. The spectrum was excited in a tube with hollow eathode cooled with liquid natrogen. Isotopical displacement was measured between isotopes 164-162 upon 52 lines of a neutral and 3 lines of an ionized atoms. The position of a compenent of isotope 160 was measured upon 4 lines. The majority of lines show a negative displacement. The value of displacement changes from 0.024 to 0.074 cm.-1 in table of lines is given the displacement of which was measured. On the basis of the value and direction of displacement certain suppositions are made concerning possible electron configurations of levels participating in transitions.

Card 1/1



"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000410930003-1



DONTSOV, Yu.P.; STRIGANOV, A.P.

Monoisotopic mercury source of light and determination of the cross section for the capture of thermal neutrons by Au198.

(MIRA 12:5)

Fix. sbor. np.4:11-12 '58.

1. Laboratoriya ismeritel nykh priborov AN SSSR.

(Gold--Isotopes) (Mercury--Isotopes) (Neutrons--Capture)

DONTSOV, Yu.P.

Isotope shift in the spectrum of dysprosium. Fiz.sbor. no.4:17-18 '58. (MIRA 12:5)

1. Laboratoriya izmeritel'nykh priborov AN SSSR. (Dysprosium--Spectra)

AUTHORS:

Dontsov, Yu. P., Korostyleva, L. A.

SOV/48-22-6-12/28

TIPLE:

The Isotopic Displacement in Spectra of Cerium and Zirconium (Isotopicheskoye smeshcheniye v spektrakh tseriya i tsirkoniya)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizichemkaya, 1958, Vol. 22, Nr 6, pp. 683-685 (USSR)

ABSTRACT:

In the introduction it is pointed out that this displacement occurs with the magic numbers 50 and 82; in transition of N = 82 to N = 84 points of discontinuity were found by Murakawa (Ref 1) as well as by Arroe (Ref 2), but the data supplied by these authors do not agree. It has hitherto not yet been proved that "displacement discontinuities" occur within the range of the magic neutron number of 50. For the investigation of the isotopic displacement for cerium and zirconium the usual method (Ref 3) of exciting and photographing spectra was employed. With the isotopes Ce¹³⁶, Ce¹³⁸ and Ce¹⁴⁰ this displacement was less than half the width of the spectral line. It was further found that displacement between the isotopes 140 and 142 is nearly four times as great as between the isotopes 138 and 140. It was further found that the volume effect in the zirconium spectrum contributes

Card 1/3

The Isotopic Displacement in Spectra of Cerium and Zirconium

SOV/48-22-6-12/28

towards bringing about full displacement. In this paper a schematical representation of the relative position of the components of isotopic lines within the range of the magic numbers 50 and 82 is given. The recently published work by R. Hughes (Ref 5) concerning the displacement with respect to volume of the components of the isotopic lines of strontium is mentioned, which indirectly confirms the here discussed theory of "displacement discontinuities". Moreover, the theory developed by L. Wilets (Ref 6) et al. is mentioned, in which all anomalies in isotopic displacements were explained by the variable deformation of nucle!... In this connection it is pointed out that the lack or the abundance of neutrons cannot cause nuclear deformation if the filled shell is taken into account, for the conveyance of a neutron pair to the closed shell alone causes a distinct enlargement of the nuclear radius, which is manifested by the "discontinuities" in isotopic displacements when passing through the magic numbers. The filling of different sub-shells with an increase of the

0am 2/3

The Isotopic Displacement in Spectra of Cerium and Zirconium

SOV/48-22-6-1:2/1:8

number of neutrons in the nucleus may cause a deviation from the law r-R_o.A¹/3, which is here described as the probable cause of the variable amount of isotopic displacement found to occur. There are ! figure and 6 references, 1 of which is Soviet.

1. Cerium isotopes (Radioactive) -- Spectra 2. Zirconium isotopes (Radioactive) --- Spectra

Card 3/3

20V/51-6-1-1/30

AUTHOR:

Dontsor, Yu.P.

TITLE :

Isotopic Shift in the Spectrum of Zr I (Isotopicheskoye smeshchenkye v spoktre ZrI)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol c, Nr l, pp 3-8 (USSR)

ABSTRACT:

The isotopic smift of spectral lines is due to who causes; change in the nuclear mass (the mass offect) and change in the nuclear field (the volume effect). If the magnitude and behaviour of the volume part of the isotopic shift are known it is possible to deduce some information on the change of the nuclear radius from one isotope to another. If a pate of neutrops is adied to a nucleus with a closed outer shell there may be a discontinuous change in the nuclear radius which would appear as a "jump" in the isotopic shift. Such a "jump" should occur at N = 50 (N = the number of neutrons in a mucleus) and for this reason the isotophe shift in 2r is of great interest since one of its isotopes (2:50) has N = 50. Zr spectrum was excited in an aluminion discharge tube with a hollow cathode cooled with liquid nitrogen. Argon was used as the working gas at a pressure of 0.5 mm ${\rm H}_{\rm S}$ The spectrum was resolved by means of a Fabry-Perot interferometer crossed with a triple prism spectrograph ISP-51. The interferometer was placed in a thermostat whose temperature was controlled to

Card 1/3

SOV/61-6-1-1/30

Tabtopic Shift in the Spectrum of Zr 1

within to.050g. The isotopic structure in the Zr spectrum was found to be loss than the half-width of spectral lines and, therefore, to measure the isotopic shift the author shotographed on one plate spectra of five samples enriched in 2000, 2001, 2000, 2004 and 2006 respectively. Since each of these samples contains, in addition to the main component. some admixtures of the other isotopes (see Table 1), it was necessary to allow for the coursepping of the spectral lines. Table 2 shows the results of measurements, the first column gives the wavelength, the second gives the transition responsible for this wavelength and the next four columns give the shifts between the five lectopic species of Zr. In all the lines studied, with the exception of three, a negative shift was observed, i.e. the component due to the heavier isotope was displaced towards longer wavelengths. The value of the isotopic shift for one electron transition varies slightly with multiplicity of this transitica. Table 3 gives the mean values of the shift for various types of transitions. The data of Table 3 can be used to find approximately the volume part in the isotopic chift for Zr90.2r92, Zr92-Zr94 and Zr94-Zr06. The volume lectopic shifts were found to be -5 x 10-3, -2 x 10-3 and -3 x 10-3 m-1 respectively. To find the lastopic shift "sum;" at N = 30 Lt is necessary to study the . shifts between isotope with smaller and larger numbers of neutrons than

Card 2/3

Isotopic Shift in the Spectrum of Ar 1

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the major rate. The C. Setural Zr has no isotopes with less than 50 neutrons, but hughes (Ref 5) found that the solume part of the isotopic shift between Sr isotopes with less than 50 neutrons was equal to zero within the limits of experimental error. Consequently the estimate of the volume part of the isotopic shift between Zr90 and Zr 92 given in the present paper in an indirect confirmation of the "jump" at N = 50. The author also notes that the values of the isotopic shifts between Zr90, Zr92 and Zr94 are different and he deduces that the nuclear radius does not follow the Al/3 law but changes discontinuously on Filling of the neutron shells. The earther thanks A.R. Strigmon for suggesting the work and advice on it. There are 3 tables and 8 references, 1 of which is Soviet, 4 English, 1 German, 1 Danish and 1 mized (Scriet and English).

SUBMITTED: February A., Ave.

Cett 3/3

DONTSOV, YU.P. Cand Phys-Math Sci -- (diss) "Anamolies of isotopic displacements in spectra of the elements (Zr, Mo and Nd),"

Moscow, 1960, 7 pp, (Moscow ENEX State U im M. V. Lomonosov. Institute of Atomic Energy im I. V. Kurchatov, AS USSR) (KL, 44-60, 127)

80540

8/051/60/008/08/001/024 E201/E691

3.2500 AUTHORS:

Dontsov, Yu.P., Morosov, V.A. and Striganov, A.R.

TITLE:

Isotopic Shift in the Spectrum of Needymium

PERIODICAL:Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 741-745 (USSR)

ABSTRACT: The isotopic shift in the atomic spectrum of neodymium was investigated by several workers (Refs 1-5); Table 1 lists the results obtained by Woldeke and Steudel (Refs 3, 4). As in samarium, an anomalous shift was observed between the Md148 and Nd150 components (it occurs on addition of the forty-fifth pair of neutrons to the nucleus). The present paper reports a new investigation of the isotopic shift of neodymium. In contrast to previous work the samples used consisted of separated isotopes: Nd 142 Nd 144 Nd 146 Nd 148 Nd 150 (Table 2). A Fabry--Perot interferometer and a hollow-cathode discharge tube were employed. The following isotopic shifts were measured for 16 lines lying between 4689 and 6486 $\frac{1}{8}$; Δy (142-144), Δy (144-146), Δy (146-148), Δy (148-150) (Table 3). It was found that the relative shifts of the Nd I and Nd II lines were practically identical and that the relative anomalous

Card 1/2

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S/051/60/008/06/001/024 E201/E691

Isotopic Shift in the Spectrum of Neodymium

shift was practically independent of wavelength (Table 4). The mean relative shifts were: 1.00 (142-144), 0.87 (144-146), 1.04 (146-148), 1.42 (148-150) (of. Table 4 and a figure on p 744). The inequality of the relative shifts of neodymium isotopes whose nuclei do not possess static deformation, may be due to non-uniform variations of the amplitudes of zero vibrations of the nuclear quadrupole moment. There are 1 figure, 4 tables and 9 references, of which 3 are Soviet, 2 English, 2 Dutch and 2 German.

SUBMITTED: November 5, 1959

Card 2/2

TARASOV, A.M., kand.tekhn.natk; SEMENCHENKO, M.R., inzh.; GUR'YEVA, Z.I., inzh.; DONTSOVA, A.M., inzh.; MALYGINA, T.I., inzh.

Use of structural steels with small additions of boron at the Gorkiy Automobile Plant. Metalloved. i term.obr.met. no.12: 16-21 D '61. (MIRA 14:12)

1. Gor'kovskiy avtomobil'nyy zavod.
(Gorkiy--Automobile industry)
(Boron steel)

DONTSOV, P.M.; DONTSOVA, A.Ya.

Characteristics of the volume state of iron-carbon alloy phases. Izv. vys. ucheb. zav.; chern. met. 6 no.5:168-174 '63.

(MIRA 16:7)

(Iron alloys—Metallography) (Phase rule and equilibrium)

SION NR: APHOLH252

\$/0133/64/000/002/0149/01

inclus: Dontsov, P. M. (Candidate of technical sciences); Papush, A. C. (Candidate of technical sciences); Aristov, V. S. (Candidate of technical sciences); Welskhovskiy, L. G. (Engineer); Shcherbak, M. A. (Engineer); Dontsova, A. Ya. Engineer); Gorbachev, A. F. (Engineer)

TITIE: Production of plated formed iron by electric-are fusing and rolling

SOURCE: Stal', no. 2, 1964, 149-152

TAGS: plated iron, steel, electric arc fusing, profile iron, SWKHLENGT strode, MS 1 steel, ADS 1000 2 welder, AN 26 flux, stainless steel, SVKHLENGT solder, rolling mill, 620 rolling mill, 450 rolling mill, 400 rolling mill

ferent shapes. Several layers of stainless steel were fused enter the samples by the automatic multi-electrode welding method. The chemical composition of the metal plate proved satisfactory (Cr > 16%, Ni > 8%) when the MS-1 steel and 3-mi SVIKhl8N9T electrodes with AN-26 flux were used. The automatic welding assembly ADS-1000-2 was designed to produce simultaneous operation with three electrodes.

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ACCESSION NR: APLIO11252

Samples were rolled in mills 620, 450, and 400. Tests showed a strong union of plate with the base metals. In structure, the first layer of the fused-on metal. proved to be martensitic and the following layers austenitic. It was determined that the optimal thickness of the metal plate was 1-2 mm. The samples withstood tests for intergranular corrosion even when the angle of bending was 180 degrees. Orig. art. has: 2 tables, 4 figures, and 4 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 03Mar64

ENCL: OC

SUB CODE: ML

NO REF SOV: OOL

OTHER: 000

Card 2/2

DONTSOV, P.M., kand.tekhn.nauk; PAPUSH, A.G., kand.tekhn.nauk; ARISTOV, V.S.; kand.tekhn.nauk; MALAKHOVSKIY, L.G., inzh.; SHCHERBAK, M.A., inzh.; DONTSOVA, A.Ya., inzh.; GORBACHEV, A.F., inzh.

Manufacture of clad rolled shapes by the method of electric are hard facing with subsequent rolling of the blank. Stal' 24 nc.2: 149-152 F '64. (MIRA 17:9)

ACCESSION NR: AP5022574 UR/0129/65/000/009/0014/0017 669.14.018:620.18 AUTHOR: Dontsova, TITLE: Alloying of machine steels SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1965, 14-17 TOPIC TAGS: Proceeding from the assumption that in the presence of an identical degree of strength all steels display the same mechanical properties regardless of their content of carbon and alloy elements, the author elucidates the relationship between the position of the point M1 (beginning of martensite transformation); which is determined by the degree and method of the alloying of steels, and the impact strength of steels. The impact toughness of steels containing one or several of the following alloy elements: Si, Mn, Cr; Mo, Cu, Ni, and 0.23-0.67% C, is compared. It is shown that the amount of residual austenite in a steel is associated with the position of M1, which, in its turn, depends on the alloying method. It is concluded that a low position of Mi conditions a higher hardening of steel and hence also some decrease in impact strength. In steels with the same strength impact strength increases with rising Mi. Thus, Card 1/2

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	flected in the	pronenes	s of stee	is to form as well as	in their	in-	
A-X-cranatormacron (dec	age to brittle	fracture	. Vbbaren	itty excess	a complet		
year-transformation (que pact strength and pronon dition of alloy elements	in excess of	the amoun	nt require	ses the po	sition of	e Hi.	
pact strength and pronent dition of alloy elements hardenability) is harmfu Orig. art. has: 5 figure	1, since it un	Mecessor					
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		OO		SUB CODE	: 16M, HT		
ASSOCIATION: none		enci.; 00		SUB CODE	: 1914, HT		
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15.8350

\$/190/63/005/002/020/024 B101/B102

AUTHORS:

Gul', V. Ye., Chernin, I. M., Zaborovskaya, Ye. E.,

Dontsova, E. P., Gvil'dis, V. Yu.

TITLE:

Investigation of the rupture process of glass fabric-

reinforced resins

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 5, no. 2, 1963,

274-278

TEXT: The effect of the nature of the binder on the tensile strength of glass-reinforced resins (GRR) was studied. $\sigma = f(\epsilon)$ was determined and the breaking process was recorded with a high-speed camera. Results: GRR with epoxy phenol or epoxy phenol-rubber binder (I) break in the same way as a homogeneous brittle material, $\sigma = 1600 + 50 \text{ kg/cm}^2$. In GRR with epoxy organosilicon binder, the individual glass fabric layers behave nonuniformly, $\sigma = 1250 + 100 \text{ kg/cm}^2$. GRR with epoxy resin binder differed but slightly from I, but a slight separation into layers set in; $\sigma = 1550 + 50 \text{ kg/cm}^2$. The most irregular behavior was observed in glass fabric layers with polyester maleinate or epoxy polyester acrylate binder; $\sigma = 650 + 100 \text{ kg/cm}^2$.

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Conclusion: The strength of GRR increases with the cohesive strength of the binder and with its adhesion to glass. Under otherwise equal conditions, the highest strength is obtained if the difference between the relative elongation of the GRR and of the binder itself is small. Owing to the penetration of the binder into microcracks and the resulting compensation of the overstrain peaks the strength of the GRR can be higher than the total of the strengths of glass fabric and binder. There are 9 figures.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED:

September 8, 1961

Card 2/2

GUL, V.Ye.; ZABOROVSKAYA, Ye.E.; DOMTSOVA, E.P.; BURNOVA, B.G.

Adhesion of thermosetting polymers to glass. Vysokom.soed. 5 no.2:269-273 P 163. (MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova. (Polymers) (Glass) (Adhesion)

L 13634-65 EWP(e)/EWT(m)/EPF(c)/EFR/EWP(J)/T/EWN(b) Pc-4/Pq-4/Pr-4/Ps-4/ASD(m)-3/AEDC(b) RM/WH/WW

ACCESSION NR: AP4046901

\$/0191/64/000/010/0053/0055

AUTHOR: Dontsova, E. P.; Gvil'dis, V. Yu.; Zaborcwakaya, Ye. E.; Gul', V. Ye.

TITLE: Temperature dependence of the rupture of liberglass fabrics during uni-

SOURCE: Plasticheskiye massy*, no. 10, 1964, 53-55

TOPIC TAGS: fiberglass, fiberglass fabric, plastic cloth, laminated plastic, reinforced plastic, epoxide resin, epoxyphenol resin, binder, ply separation

ABSTRUCT: The authors attempted to clarify the temperature dependence of the tensile atrength of fiberglass fabrics on the basis of the assumption that if the resin and glass fibural undergo the same deformation, the plastic material tenaves as a monolith, does not separate into layers, and a destroyed only if the stress applied to it exceeds the combined strength of all the glass fabric layers. Fiberglass fabrics containing epocyphenol resin or epoxide binders (K-75 or K-82) were investigated over a temperature range of -40 to +2(CC. It was found that fabrics based on different binders differ very little from one another in tensile strength at either low temperatures (-40C) or temperatures above 100-150C, regardless of the different strength and thermal stability of the hardened binders. In the range

1. 176211-65 ACCESSION PR: AP4046901

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between -40 and +1000, the strength is determined by the type of binder. In fabrics made from a more thermo stable resin, the strength decreases more slowly with increasing temperature. The character of the destruction in fiberglass fabrics can be clearly seen in photographs of the samples in two planes, in front and side views. These observations are discussed. No ply separation takes place at 20 or 60C, but on increasing the temperature to 100C and higher, or decreasing it to 40C, the layers separate. At 1000, the fabrics containing epoxyphenol resin show less separation than samples with pure epoxide binders. At 150-200C there is a marked separation of the layers. This is explained by the fact that the samples were made of two kinds of glass: silicate and polymeric, which behave differently on heating. In the brittle stage, the binders differ little from one another in deformability, but with increasing temperature the deformability of polymer glass increases much more repidly than that of silicate glass. The rapid increase in deformation of fiberglass with heating is due to the deformation of the polymer binder. During transition of the binder into the highly elastic state, the deformability of the resin is higher than that of the fiberglass fabric. In this case, the stresses between all layers are distributed non uniformly and this causes the layers to separate. Orig. art. has: 2 figures and 1 table.

Card 2/3.

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000410930003-1

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L 13634-65		di harana di kababaharan da kababaharan 1965 bertaun 1965 bertaun 1965 bertaun 1965 bertaun 1965 bertaun 1965 Bertaun 1965 bertaun 1965 bertau		
ACCESSION NR: AP4046				
ASSOCIATION: None				
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RPA(s)-2/EVI(M)/EPF(c)/EPR/EWP(1)/T Pc-li/Pr-li/Ps-li/Pt-7 WW/RH ACCESSION NR: AP5011991 UR/9374/65/000/001/0082/0083 678:539.315 AUTHORS: Kiselev, H. R. (Moscow); Lubov, P. I. (Moscow); Sukhareva, 1 (Moscow); Zatorovskaya, Ye. E. (Moscow); Dontsova, B. P. (Moscow) TITLE: Internal stressus in fiberglass \9 SOURCE: Nekhanika polisjerov, no. 1, 1965, 82-88 TOPIC TAGS: fiberglass, internal stress, bonding material, filler/Thickol ABSTRACT: The enthors investigated the internal stresmes of fiberglass made with planticized bonding material and of films of pure bonding material. These stresses were found to be lower than those in unplasticized material. The material studied was plasticized and unplasticized polyvinyl butyral, epoxy resin, and plasticized and unplasticized Thinkol. \Stresses were determined optically. investigations were made on films deposited on a glass prism from 50% solution an alcohol-toluene mixture. The film was dried for an agur and then subjected to heat trustment. Temperatures of treatment were 60, 100, 130, and 1501, several combinations of these being employed. Samples of fille! muterial were obtained by outting from previously impregnated glass cloth or tape. Internal stresmes were Card 1/2

i. 52 231–65						
ACCESSION IR: APEDI19)1	المنافع المستعرب		Alaman Company		
measured alter each hordstics of liberglass di that the distribution of were observed in fib.r to the fibers. Fibergi directions was found to	cline with Lane with	th increa strosens h taps ra filler o	iso in internal is anisctropic inforcement in riented in two	-rtrusses, e . Highest i -4 direction -rutually no	ed it was for internal, stre at right an expendicular	ourl 1822 15306 1821 16105 1821
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YATSENKO, Ye.F.; BOYKO, G.Ye.; DONTSOVA, G.M.

Higher liquid hydrocarbons in the pathion ozocerites. Izv.vys. ucheb.zav.; neft' i gaz 5 no.2:71-75 '62. (MIRA 15:7)

1. Livovskiy gosudarstvennyy universitet imeni I. Franko i Ukrainskiy nauchno-issledovateliskiy geologorazvedochnyy institut.

(Carpathion Mountains-Ozocerite)

NEYFAKH, A.A.; DONTSOVA, G.V.

Radiation study of the role of nuclei in the increase of cytochrome oxidase activity in fish embryos. Biokhimiia 27 no.2:339-348 Mr-Ap
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1. Institute of Animal Morphology, Academy of Sciences of the U.S.S.R., MOBCOW.

(CYTOCHROME OXIDASE) (EMBRYOLOGY—FISHES)

(CELLNUCLEI) (RADIATION-PHYSIOLOGICAL EFFECT) (CELLNUCLEI)

L 22187-65 EWY(m)/EPF(a)/	
ACCESSION NR: AR4049261	8/0081/64/000/316/E064/E064
SOURCE: Ref. zh. Khimiya,	No. 168115
AUTHOR: Yatseako, Ye. F.;	Dontsova, G. M.; Gorbunova, I. 'le.
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TITLE: Physical and chemica deposits	properties of crudes from new Carpathian
CITED SOURCE: Tr. Ukr. a.	i. geolugorazvad. in-t, vy*p. 7, 1963, 233-241
	ecting, Carpathian crude, Carpathian natural
gas, low sulfur crude, paraffi	
denusity located at denths of 1	ed a number of recently discovered petroleum (00–1500 and 2000–3000 m. The specific gravity)
for all the crudes ranged from	0.816 to 0.870. Crudes from the Staryavy and
Ulichno deposits were light (deskaya, Orovskaya, Spasskaya,	0 = 0.31 to 0.82); those from the Voli-Blazhev- Struten'skaya (menilitic series) and Dolina
Curd 1/3	
Luro	

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ACCESSION NR: AR4049261

(eccenc) deposits were medium (0.83 to 0.85), while crudes from the remaining fields were heavy. Comparatively low viscosity and high solidification points (+10, +22C) were characteristic for all the crudes, a fact determined by a high content of paraffin. Crudes from Staryavy were the exception with a solidification point below -17C. Mentitle crude from Borislav contained the highest amount of light hydrocarbons, while those from Ulichno and Dolina had the highest light fraction content. Foreign elements (8, N and O) did not exceed 2% for all the crudes except the socene crude from Dolina and mentition crude from Ol'khovka, in which they ranged above 2%. S = 0.2 to 0.5%, N and O = 0.2 to 1.8%. Casoline ranged from 5 to 26%, kerosene from 20 to 38%. All crudes with the exception of those from Staryava and Ol'khovka were paraffinic, and all except those from Staryava and Ulichno were tarry (5-10%). In addition to concentrations of crude, a natural gas deposit was found at eocene levels of the inner sone of a depression in the Bitkovskaya Cilubinnaya formation. Natural gas was taken from the same deposits on the Servo-Dolinskaya fold (sp. gr.

Card 2/3